

	Type	L #	Hits	Search Text	DBs
1	BRS	L10	1	10/500318	US- PGPUB; USPAT; EPO; JPO; DERWEN T
2	BRS	L11	1	10 and (photodiod\$2 diod\$2)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
3	BRS	L13	1	"20040119129"	US- PGPUB; USPAT
4	BRS	L14	1	13 and (("p-i-n" p near12 n) same diod\$2 and ("p-i-n" p near12 n) and ("p-i-n" p n) near5 dop\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
5	BRS	L15	1	13 and diod\$2 and ("p-i-n" same p same n)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
6	BRS	L16	7	(US-20040119129-\$ or US- 20030165314-\$).did. or (US- 6831309-\$ or US-3952265-\$ or US-5764826-\$ or US- 7072557-\$ or US-6670599- \$).did.	US- PGPUB; USPAT

	Time Stamp
1	2007/02/27 11:32
2	2007/02/27 11:32
3	2007/02/27 12:59
4	2007/02/27 11:43
5	2007/02/27 11:45
6	2007/02/27 17:13

	Type	L #	Hits	Search Text	DBs
7	BRS	L17	3	16 and diod\$2 and (p same n) and "p-i-n"	US- PGPUB; USPAT; EPO; JPO; DERWEN T
8	BRS	L18	1	13 and (gap bandgap\$2) same (absor\$5 same (photon\$1 wavelength\$1))	US- PGPUB; USPAT; EPO; JPO; DERWEN T
9	BRS	L19	0	16 and (waveguid\$2 same absr\$5)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
10	BRS	L20	6	16 and (waveguid\$2 same absor\$5)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
11	BRS	L21	6	20 and (free charg\$3 electron\$3 carri\$5) and waveguide\$2	US- PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
7	2007/02/27 13:28
8	2007/02/27 12:19
9	2007/02/27 12:02
10	2007/02/27 12:04
11	2007/02/27 12:05

	Type	L #	Hits	Search Text	DBs
12	BRS	L22	1	13 and (gap bandgap\$2 diod\$2 pin p n) and (absor\$5 near12 wavelength\$1)	US-PGPUB; USPAT; EPO; JPO; DERWEN T
13	BRS	L23	1	13 and (gap bandgap\$2 diod\$2 pin p n) and (absor\$5 near12 wavelength\$1) and absor\$5	US-PGPUB; USPAT; EPO; JPO; DERWEN T
14	BRS	L24	1	13 and (detect\$5 sens\$4 photodetect\$5 photodiod\$4) same (free charg\$4 electron\$4 carr\$5)	US-PGPUB; USPAT; EPO; JPO; DERWEN T
15	BRS	L25	1	13 and (hole\$2 cavit\$4 defect\$4 impurit\$4 dop\$5)	US-PGPUB; USPAT
16	BRS	L26	1	13 and (hole\$2 cavit\$4 defect\$4 impurit\$4 hydrogen proton\$1 implant\$6)	US-PGPUB; USPAT
17	BRS	L27	1	10 and (rib\$3 slab\$4)	US-PGPUB; USPAT
18	BRS	L28	4	16 and (diod\$2 (p same n) "p-i-n") same (bandgap\$4 gap\$4)	US-PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
12	2007/02/27 12:23
13	2007/02/27 17:29
14	2007/02/27 12:30
15	2007/02/27 13:03
16	2007/02/27 13:21
17	2007/02/27 13:22
18	2007/02/27 13:30

	Type	L #	Hits	Search Text	DBs
19	BRS	L29	1	13 and (diod\$2 (p same n) "p-i-n") same (bandgap\$4 gap\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
20	BRS	L30	0	13 and (silicon si sio\$6)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
21	BRS	L31	0	13 and (silicon si sio\$6 silic\$5 glass\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
22	BRS	L32	5	16 and (silicon si sio\$6 silic\$5 glass\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
23	BRS	L33	1	13 and (bandwidth\$3 same wavelength\$2)	US- PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
19	2007/02/27 13:38
20	2007/02/27 13:38
21	2007/02/27 13:39
22	2007/02/27 13:52
23	2007/02/27 14:03

	Type	L #	Hits	Search Text	DBs
24	BRS	L34	1	13 and material	US- PGPUB; USPAT; EPO; JPO; DERWEN T
25	BRS	L35	7	16 and (reflect\$4 grating\$2 awg\$2)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
26	BRS	L36	4	16 and (reflect\$4 grating\$2 awg\$2) same wavelength\$2	US- PGPUB; USPAT; EPO; JPO; DERWEN T
27	BRS	L37	4	16 and attenuat\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T
28	BRS	L38	7	16 and (reduc\$4 power)	US- PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
24	2007/02/27 14:30
25	2007/02/27 14:33
26	2007/02/27 14:49
27	2007/02/27 14:49
28	2007/02/27 14:56

	Type	L #	Hits	Search Text	DBs
29	BRS	L39	7	16 and (reduc\$4 power intensit\$5) same (light wavelength\$2)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
30	BRS	L40	3	16 and (var\$5 tun\$5) near12 (light wavelength\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
31	BRS	L41	7	16 and (detect\$5 sens\$5 diodes photodiodes photodetectors)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
32	BRS	L42	1	10 and (detect\$5 sens\$5 diodes photodiodes photodetectors)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
33	BRS	L43	1	10 and (detectors sensors diodes photodiodes photodetectors)	US- PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
29	2007/02/27 15:04
30	2007/02/27 15:14
31	2007/02/27 15:16
32	2007/02/27 15:16
33	2007/02/27 15:49

	Type	L #	Hits	Search Text	DBs
34	BRS	L44	1	10 and channel\$2 near12 monitor\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T
35	BRS	L45	1	10 and (channel\$2 near12 monitor\$5) and reflect\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T
36	BRS	L46	0	10 and ("fig. 18" "fig. 20") same (grating\$3 reflect\$5)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
37	BRS	L47	1	10 and (awg grating\$3 reflect\$5)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
38	BRS	L48	5	16 and (bandgap\$4 band\$2 near5 gap\$3 diod\$2 phtodiod\$4 pin) near12 (absor\$6) same (wavelength\$2 photon\$4) and absor\$5 near12 (photon\$3 wavelength\$4 light\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
34	2007/02/27 15:58
35	2007/02/27 16:02
36	2007/02/27 16:03
37	2007/02/27 18:07
38	2007/02/27 17:19

	Type	L #	Hits	Search Text	DBs
39	BRS	L49	7	16 and (bandgap\$4 band\$2 near5 gap\$3 diod\$2 photodiod\$4 pin) near12 (absor\$6) same (wavelength\$2 photon\$4) and absor\$5 near12 (photon\$3 wavelength\$4 light\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
40	BRS	L51	7	16 and (carr\$5 free charg\$4 electrons)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
41	BRS	L52	1	13 and (gap bandgap\$2 band near3 gap\$2) near12 absor\$5 near12 (wavelength\$1 photon\$2 light) and (pin (p same n)) same absor\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T
42	BRS	L53	1	13 and (gap bandgap\$2 band near3 gap\$2) same absor\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T
43	BRS	L54	4	16 and (gap bandgap\$2 band near3 gap\$2) near12 absor\$5 near12 (wavelength\$1 photon\$2 light) and (pin (p same n)) same absor\$5	US- PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
39	2007/02/27 17:19
40	2007/02/27 17:23
41	2007/02/27 17:36
42	2007/02/27 17:35
43	2007/02/27 17:36

	Type	L #	Hits	Search Text	DBs
44	BRS	L55	4	16 and (gap bandgap\$2 band near3 gap\$2) near12 absor\$5 near12 (wavelength\$1 photon\$2 light) and (pin (p n)) near12 absor\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT
45	BRS	L57	5	16 and (gap bandgap\$2 band near3 gap\$2) near12 absor\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT
46	BRS	L56	4	16 and (gap bandgap\$2 band near3 gap\$2) near12 absor\$5 near12 (wavelength\$1 photon\$2 light)	US-PGPUB; USPAT; EPO; JPO; DERWENT
47	BRS	L58	5	16 and (gap bandgap\$2 band near3 gap\$2) same absor\$5 same wavelength\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT
48	BRS	L59	5	16 and (gap bandgap\$2 band near3 gap\$2 pin p same n) same absor\$5 same wavelength\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT
49	BRS	L60	2	(US-6670599-\$ or US-3952265-\$).did.	USPAT
50	BRS	L61	0	60 and (te tm) same polariz\$5	USPAT
51	BRS	L62	0	60 and (te tm) and polariz\$5	USPAT

	Time Stamp
44	2007/02/27 17:37
45	2007/02/27 17:39
46	2007/02/27 17:37
47	2007/02/27 17:44
48	2007/02/27 17:44
49	2007/02/27 17:50
50	2007/02/27 20:00
51	2007/02/27 17:49

	Type	L #	Hits	Search Text	DBs
52	BRS	L63	0	60 and (te tm) and polariz\$5	US- PGPUB; USPAT
53	BRS	L64	2	(US-6670599-\$ or US- 3952265-\$).did.	US- PGPUB; USPAT
54	BRS	L65	0	64 and (te tm) same polariz\$5	USPAT
55	BRS	L66	0	64 and (te tm)	USPAT
56	BRS	L67	2	64 and (si silic\$5 sio\$7)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
57	BRS	L68	1	67 and (defect\$5 hole\$3 cavit\$4)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
58	BRS	L69	0	68 and (ion)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
59	BRS	L70	1	67 and (ion)	US- PGPUB; USPAT; EPO; JPO; DERWEN T

	Time Stamp
52	2007/02/27 17:49
53	2007/02/27 18:01
54	2007/02/27 17:50
55	2007/02/27 17:51
56	2007/02/27 17:52
57	2007/02/27 17:54
58	2007/02/27 17:54
59	2007/02/27 17:54

	Type	L #	Hits	Search Text	DBs
60	BRS	L71	1	67 and (ion\$1)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
61	BRS	L72	1	71 and (hydrogen\$2 proton\$2)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
62	BRS	L73	1	(US-3952265-\$).did.	US- PGPUB; USPAT
63	BRS	L74	1	73 and (attenuat\$4 var\$6 tun\$5 chang\$5 modif\$5)	US- PGPUB; USPAT
64	BRS	L75	1	73 and (attenu\$7)	US- PGPUB; USPAT
65	BRS	L76	1	72 and (awg grating\$3 reflect\$5)	US- PGPUB; USPAT; EPO; JPO; DERWEN T
66	BRS	L77	0	16 and (te tm) same polariz\$5	USPAT
67	BRS	L78	1	16 and (te tm) and polariz\$5	USPAT

	Time Stamp
60	2007/02/27 17:55
61	2007/02/27 17:58
62	2007/02/27 18:01
63	2007/02/27 18:04
64	2007/02/27 18:04
65	2007/02/27 18:07
66	2007/02/27 20:01
67	2007/02/27 20:01

	Type	Ref #	Hits	Search Text
1	BRS	S30	12	S28 not (S23 S26 S15)
2	BRS	S6	3765	(photodiode photo\$2 near10 diod\$2) same (waveguid\$2 wave adj1 guid\$2)
3	BRS	S5	20124	absor\$5 same (free adj2 charg\$2 charg\$3 near7 carrier\$2 carrier\$2 near4 (free charg\$2) "p-i-n" p near10 n)
4	BRS	S39	5	S37 and (bandgap\$4 band\$2 near5 gap\$3) same (absor\$5) same (wavelength\$2 photon\$4) and absor\$5 near12 (photon\$3 wavelength\$4 light\$4)
5	BRS	S13	17	S7 and (grating\$4 awg)
6	BRS	S23	12	S22 and ((sens\$4 detect\$5) same (free Charg\$4 carri\$4))
7	BRS	S16	4	S15 and polariz\$5
8	BRS	S11	30	S7 and S9
9	BRS	S2	1	S1 and (detect\$4 free near5 charge\$2 carriers sensor\$3 photodiode diod\$2 absor\$5 photons band adj2 gap first adj1 wavelength\$2)
10	BRS	S15	6	S13 and S14
11	BRS	S12	2	S7 and S10
12	BRS	S28	27	S27 and absor\$6 near12 (wavelength\$2)
13	BRS	S14	16	S7 and (attenuat\$4)
14	BRS	S10	14303	(te same tm transv\$4 same electr\$4 same magnet\$4)
15	BRS	S29	12	S28 not (S23 S26)
16	BRS	S22	22	S21 and (bandgap\$2 band\$2 near3 gap\$2)
17	BRS	S20	42	S19 and absor\$6 near12 (wavelength\$2 photon\$3)
18	BRS	S19	46	S7 and absor\$6 same wavelength\$2

	DBs	Time Stamp
1	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:20
2	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 17:59
3	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 17:57
4	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 21:11
5	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:11
6	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:12
7	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:13
8	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:09
9	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 17:54
10	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:40
11	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:10
12	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:19
13	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:12
14	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:06
15	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:20
16	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:20
17	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:18
18	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:45

	Type	Ref #	Hits	Search Text
19	BRS	S18	49	S7 and wavelength\$2
20	BRS	S24	1	S1 and ((sens\$4 detect\$5) same (free Charg\$4 carri\$4))
21	BRS	S21	26	S20 and absor\$6 same wavelength\$2 same photon\$3
22	BRS	S26	5	S25 not S23
23	BRS	S32	6	S31 and ((sens\$4 detect\$5 pd photodiod\$2) near16 (electrons free Charg\$4 carri\$4))
24	BRS	S7	52	S3 and S4 and S5 and S6
25	BRS	S9	474479	electric\$4 near7 contact\$4
26	BRS	S25	15	S22 and ((sens\$4 detect\$5 pd photodiod\$2) near16 (electrons free Charg\$4 carri\$4))
27	BRS	S31	10	S30 and (bandgap\$2 band\$2 near3 gap\$2)
28	BRS	S27	34	S20 and absor\$6 same photon\$3
29	BRS	S33	10	S31 and ((sens\$4 detect\$5 pd photodiod\$2) same (electrons free Charg\$4 carri\$4))
30	BRS	S36	1	S1 and (gap\$4 level\$2)
31	BRS	S40	7	S37 and (absor\$5 near12 (photon\$3 wavelength\$4 light\$4))
32	BRS	S35	4	S31 not S32
33	BRS	S43	7	S37 and (photodiod\$3 diod\$2) same (absor\$5) same (wavelength\$2 photon\$4) and absor\$5 near12 (photon\$3 wavelength\$4 light\$4)
34	BRS	S4	7998	(photodiode photo\$2 near10 diod\$2) same absor\$5
35	BRS	S37	7	(US-20040119129-\$ or US-20030165314-\$).did. or (US-6831309-\$ or US-3952265-\$ or US-5764826-\$ or US-7072557-\$ or US-6670599-\$).did.
36	BRS	S38	5	S37 and (bandgap\$4 band\$2 near5 gap\$3) same (absor\$5)

	DBs	Time Stamp
19	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:44
20	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:49
21	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:16
22	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:14
23	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:25
24	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:00
25	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:05
26	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:22
27	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:20
28	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:17
29	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:25
30	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 20:48
31	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 21:11
32	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 19:26
33	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 21:16
34	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 17:58
35	US-PGPUB; USPAT	2007/02/27 11:45
36	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 21:03

	Type	Ref #	Hits	Search Text
37	BRS	S44	7	S37 and (photodiod\$3 diod\$2) near12 (absor\$5) same (wavelength\$2 photon\$4) and absor\$5 near12 (photon\$3 wavelength\$4 light\$4)
38	BRS	S42	4	S41 and (photodiod\$3 diod\$2) same (absor\$5) same (wavelength\$2 photon\$4) and absor\$5 near12 (photon\$3 wavelength\$4 light\$4)
39	BRS	S41	4	S37 and (bandgap\$4 band\$2 near5 gap\$3) near12 (absor\$5) same (wavelength\$2 photon\$4) and absor\$5 near12 (photon\$3 wavelength\$4 light\$4)
40	BRS	S3	12041	("p-i-n" p near12 n) same diod\$2 and ("p-i-n" p near12 n) and ("p-i-n" p n) near5 dop\$4
41	BRS	S1	1	10/500318
42	BRS	S17	2	S15 not S16

	DBs	Time Stamp
37	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 21:16
38	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 21:16
39	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/27 17:15
40	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/27 17:22
41	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/27 11:32
42	US-PGPUB; USPAT; EPO; JPO; DERWENT	2007/02/26 18:43